#### WHAT IS CLAIMED IS:

1. A software download system for downloading a communication software from a download center with which a communication apparatus is connected via a communication line, wherein

the communication apparatus comprises:

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- a software storage unit which stores the communication software;
- a request information generating unit which generates request information indicating at least a status of the communication apparatus by recognizing the status of the communication apparatus;
- a request information transmitting unit which transmits the request information to the download center;
- a software receiving unit which receives the communication software transmitted from the download center;
- a software rewrite control unit which rewrites contents of the software storage unit with the received communication software; and
  - a communication unit which executes the stored communication software, and

the download center comprises:

- a software accumulating unit which accumulates different kinds of communication software;
  - a request information receiving unit which receives the request information of the communication apparatus;
  - a software selecting unit which selects a suitable communication software from the software accumulating unit in accordance with the received request information; and
    - a software transmitting unit which transmits the selected

communication software to the communication apparatus.

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- 2. The software download system according to claim 1, wherein the communication unit has a function of receiving broadcast, and the communication software is a receiving software.
- The software download system according to claim 2, wherein the communication unit has a function of receiving different kinds of broadcast, and
- the communication apparatus further comprises a received broadcast switching unit which switches the kind of broadcast received by the communication unit.
- 4. The software download system according to claim 1, wherein

  the communication unit has a function of the mobile communication apparatus.
- The software download system according to claim 1, wherein
  the communication apparatus further comprises a request
   information transmission judging unit which judges whether or not the request information should be transmitted to the download center.
- The software download system according to claim 1, wherein
  the download center further comprises a software transmission
  judging unit which judges whether or not the selected communication
  software should be transmitted to the communication apparatus.

#### 7. The software download system according to claim 1, wherein

the communication apparatus further comprises a position information acquiring unit which acquires a position information of the communication apparatus, and

the request information generating unit makes the request information include the position information, and wherein

the download center further comprises a community information database, and

the software selecting unit refers to the community information database based on the position information included in the request information and selects a suitable communication software in consideration of a communication environment based on the position of the communication apparatus.

### 15 8. A communication apparatus comprises:

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- a software storage unit which stores communication software;
- a request information generating unit which generates request information indicating at least a status of the communication apparatus by recognizing the status of the communication apparatus;
- a request information transmitting unit which transmits the request information to a download center;
  - a software receiving unit which receives the communication software transmitted from the download center;
  - a software rewrite control unit which rewrites contents of the software storage unit with the received communication software; and
  - a communication unit which executes the stored communication software.

9. The communication apparatus according to claim 8, wherein the communication unit has a function of receiving broadcast, and the communication software is a receiving software.

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10. The communication apparatus according to claim 9, wherein the communication unit has a function of receiving different kinds of broadcast, and

the communication apparatus further comprises a received broadcast switching unit which switches the kind of broadcast received by the communication unit.

11. The communication apparatus according to claim 8, wherein

the request information generating unit generates request information to make a request for communication software with a high precision of arithmetical operation that can receive a receiving signal at excellent sensitivity, when the power level of the receiving signal is different from the supposed power level for the current communication software.

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12. The communication apparatus according to claim 8, wherein the request information generating unit generates request information to make a request for communication software with the high synchronizing performance, when the receiving signal is likely to be out of synchronization.

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13. The communication apparatus according to claim 8, wherein the request information generating unit generates request

information to make a request for communication software optimal to a unique information, when the unique information for the receiving signal is obtained.

5 14. The communication apparatus according to claim 8, wherein

the request information generating unit generates request information to make a request for communication software suitable for removal of the multipath, when the multipath disturbance is recognized.

10 15. The communication apparatus according to claim 8, wherein

the request information generating unit generates request information to make a request for communication software with a higher ability of correcting errors, when the receiving signal has a high Bit Error Rate.

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16. The communication apparatus according to claim 8, wherein

the request information generating unit generates request information to make a request for communication software with a decoding program suitable for a multiple signal, when the information indicating that the receiving signal is the multiple signal is obtained.

- 17. The communication apparatus according to claim 8, further comprising a position information acquiring unit which acquires position information of the communication apparatus, wherein
- 25 the request information generating unit generates request information including the position information.

18. The communication apparatus according to claim 10, wherein the request information generating unit generates request information to make a request for communication software adaptable to the broadcast to be received, when the received broadcast switching unit switches the received broadcast.

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- 19. The communication apparatus according to claim 10, wherein the request information generating unit generates request information to make a request for communication software for receiving data broadcasting at the same time, when the communication unit has a small amount of signal processing for receiving broadcast.
- 20. The communication apparatus according to claim 8, further comprising a request information transmission judging unit which judges whether or not the request information should be transmitted to the download center.
- The communication apparatus according to claim 20, wherein the request information transmission judging unit judges whether or
   not the status of the communication apparatus is adaptable to the current communication software based on the generated request information.
- The communication apparatus according to claim 8, wherein
   the request information includes software information of the current
   communication software of the communication apparatus.
  - 23. The communication apparatus according to claim 8, wherein

the communication apparatus has a function of a mobile communication apparatus.

#### 24. A download center comprises:

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- a software accumulating unit which accumulates different kinds of communication software:
  - a request information receiving unit which receives request information of a communication apparatus;
- a software selecting unit which selects a suitable communication software from the software accumulating unit in accordance with the received request information; and
  - a software transmitting unit which transmits the selected communication software to the communication apparatus.

## 15 25. The download center according to claim 24, wherein

the download center further comprises a software transmission judging unit which judges whether or not the selected communication software should be transmitted to the communication apparatus.

# 20 26. The download center according to claim 25, wherein

the software transmission judging unit recognized the software information of the current communication software of the communication apparatus based on the received request information, and

the software transmission unit transmits the selected communication software to the communication apparatus, when the selected communication software is judged to be different from the communication software installed in the communication apparatus.

27. The download center according to claim 24, wherein

the download center further comprises a community information database,

the software selecting unit refers to the community information database based on the position information of the communication apparatus included in the received request information, and selects a suitable communication software in consideration of the communication environment based on the position of the communication apparatus.

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28. An information recording medium on which a communication program is recorded so as to be readable through a computer which is contained in a communication apparatus with a pre-installed re-writable recording medium, and which causes the computer to function as:

a software storage unit which stores a communication software;

a request information generating unit which generates request information indicating at least a status of the communication apparatus by recognizing the status of the communication apparatus;

a request information transmitting unit which transmits the request information to a download center;

a software receiving unit which receives the communication software transmitted from the download center;

a software rewrite control unit which rewrites contents of the software storage unit with the received communication software; and

a communication unit which executes the stored communication software.

29. The information recording medium according to claim 28, wherein the communication apparatus does not perform the operation other than rewriting the communication software, while the communication apparatus is rewriting contents of the software storage unit with the received communication software.

#### 30. A communication apparatus comprises:

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a software storage unit which stores different kinds of communication software;

a request information generating unit which generates request information indicating at least a status of the communication apparatus by recognizing the status of the communication apparatus;

a software selecting unit which selects communication software suitable for the status of the communication apparatus from the software storage unit based on the generated request information; and

a communication unit which executes the selected communication software.

31. An information recording medium on which a communication program is recorded so as to be readable through a computer which is contained in a communication apparatus with a pre-installed re-writable recording medium, and which causes the computer to function as:

a software storage unit which stores different kinds of communication software:

a request information generating unit which generates request information indicating at least a status of the communication apparatus by recognizing the status of the communication apparatus;

- a software selecting unit which selects communication software suitable for the status of the communication apparatus from the software storage unit based on the generated request information; and
- a communication unit which executes the selected communication 5 software.